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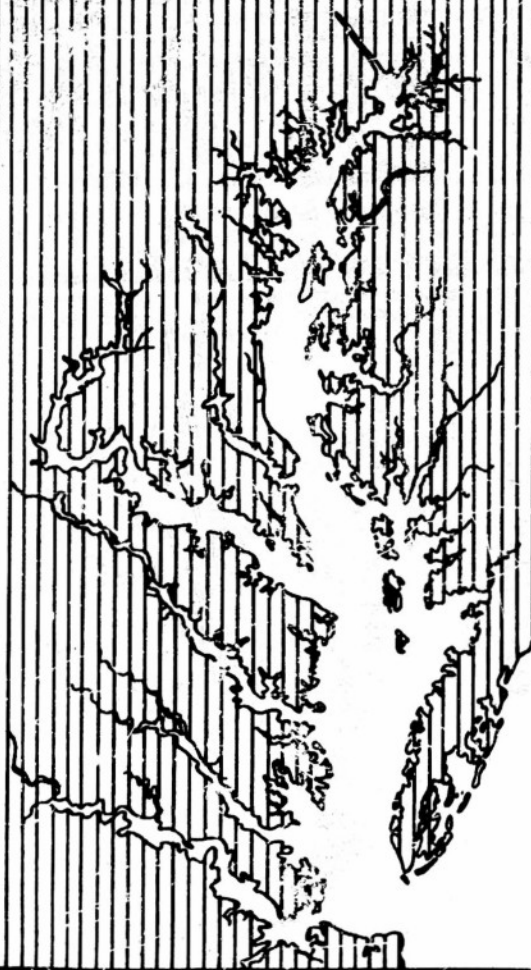
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# THE CHESAPEAKE BAY INSTITUTE of The Johns Hopkins University



DATA REPORT 22  
CHOPTANK RIVER AUTUMN CRUISE  
23 Sept — 27 Sept 1952

Reference 54-9  
November 1954

CHESAPEAKE BAY INSTITUTE  
THE JOHNS HOPKINS UNIVERSITY

DATA REPORT 22

CHOPTANK RIVER AUTUMN CRUISE  
23 Sept - 27 Sept 1952

This report contains results of work carried out for: the Office of Naval Research of the Navy Department under research project NR 083-016, Contract Nonr 248(20), and research project NR 083-070, Contract Nonr 248(30); the State of Maryland (Department of Research and Education); and the Commonwealth of Virginia (Virginia Fisheries Laboratory).

The presentation of data in this report does not constitute publication and the information may be subject to modification at a later date.

November 1954  
Reference 54-9

D. W. Pritchard  
Director

The data presented in this report were collected in the Choptank River during the period 23 September to 27 September 1952.

The purpose of this cruise was to study the physical and chemical structure of the area in the autumn season.

#### Location of Stations

An arbitrary line designating the mouth of the river was chosen from red nun buoy 16FF off James Island to black spar 3 off Sharps Island. The stations were chosen upstream from this line in the deepest part of the channel. The station designators consist of the letters CK followed by the numerals representing the number of nautical miles to the nearest mile upstream from the mouth. Thus CK-30 is the station 30 nautical miles upstream from the line designating the mouth of the river.

Station	North Latitude	West Longitude
CK-6	38°39'09"	76°18'02"
CK-12	38°38'42"	76°01'18"
CK-17	38°35'56"	76°05'04"
CK-20	38°34'22"	76°01'18"
CK-24	38°36'47"	75°58'52"
CK-26	38°38'32"	75°57'48"
CK-30	38°41'56"	75°58'37"

Current speed and direction were measured with the confined submerged drags described in "An Inexpensive and Rapid Technique for Obtaining Current Profiles in Estuarine Waters." by D. W. Pritchard and W. V. Burt, J. Mar. Res. V. 10, No. 2, 1951.

Temperature and salinity were determined by means of the Conductivity-Temperature Indicator (CTI). This is an instrument in which a nickel resistance thermometer and a conductivity cell have been combined to provide direct

continuous readings of water temperature and conductivity. The sensing elements are located in a single under water unit that can be lowered and raised on a two hundred and fifty foot cable. Two four-digit counters in portable units can be conveniently located on deck or in the ship's laboratory. Direct reading of temperature can be obtained in the range - 2.00°C to 32.00°C from one of the counters. Calibration of the thermal unit indicates that readings are within  $\pm 0.05^\circ\text{C}$  of the true temperature. Direct conductivity readings in the range 0 to 50.00 millimhos can be obtained from the second counter. Salinity is obtained from the temperature and conductivity data with the aid of curves plotted from accepted functions of the three parameters. Field calibrations have been made by comparing data from the CTI with titrated values of chlorinity and temperatures from mercury thermometers. A calibration tank is being constructed which will allow simultaneous calibration of the thermal and conductivity units.

Oxygen was determined by the Winkler titration method.

pH was determined with a Beckman pH meter.

Inorganic phosphate analyses were made by the ceruleomolybdate method using stannous chloride as the reducing agent. All samples were centrifuged with a Foerst Centrifuge prior to analysis. Sample size was 50 ml. Within 10 to 20 minutes after addition of the stannous chloride, the transmission of the sample at a wave length of 700  $m\mu$  was measured using a Beckman Model DU Spectrophotometer or a Scripps Automatic Servo-Operated Photometer. Measurements were calibrated against standard  $\text{KH}_2\text{PO}_4$  reference solutions. Analyses for inorganic phosphate were made on shipboard within two hours after the samples were drawn. No salt correction has been applied. An estimate of the precision of the method from triplicate analyses indicated

deviations of  $\pm 10\%$  of the reported values.

The turbidity was determined with a Beckman Model DU Spectrophotometer by measuring the transmission through a 10 cm cell containing the sample at the indicated wave lengths. In order to minimize the interference by settling, samples for these analyses were drawn from the Nansen bottles or pumped samples immediately after they reached the deck laboratory. The results are expressed as extinction for each wave length.

The chlorophyll analyses were made by a method developed at the Chesapeake Bay Institute. This method consists of running a one liter sample through a Foerst Continuous Centrifuge in 15-18 minutes. The collected material is transferred to a 40 ml centrifuge tube with a rubber policeman and the cup rinsed with distilled water several times. The material is centrifuged and the supernatant decanted. Methyl alcohol is added and the sample is placed in the dark at room temperature for four to eight hours. After this time the sample is made up to 40 ml, the solids are centrifuged out, and the percent transmission of the supernatant fluid is determined at 500, 625, 635, 667, and 750  $m\mu$ . The results have been corrected for background scattering and absorption by small particles and expressed as mygrams ( $10^{-6}$  grams) per liter.

Alkalinity was determined by the method found in "Rapid Electrometric Determination of the Alkalinity of Sea Water", by D. H. Anderson and R. J. Robinson, Industrial and Engineering Chemistry, Analytical Edition, Volume 18, No 12, 1946.

Weather is reported in the following code:

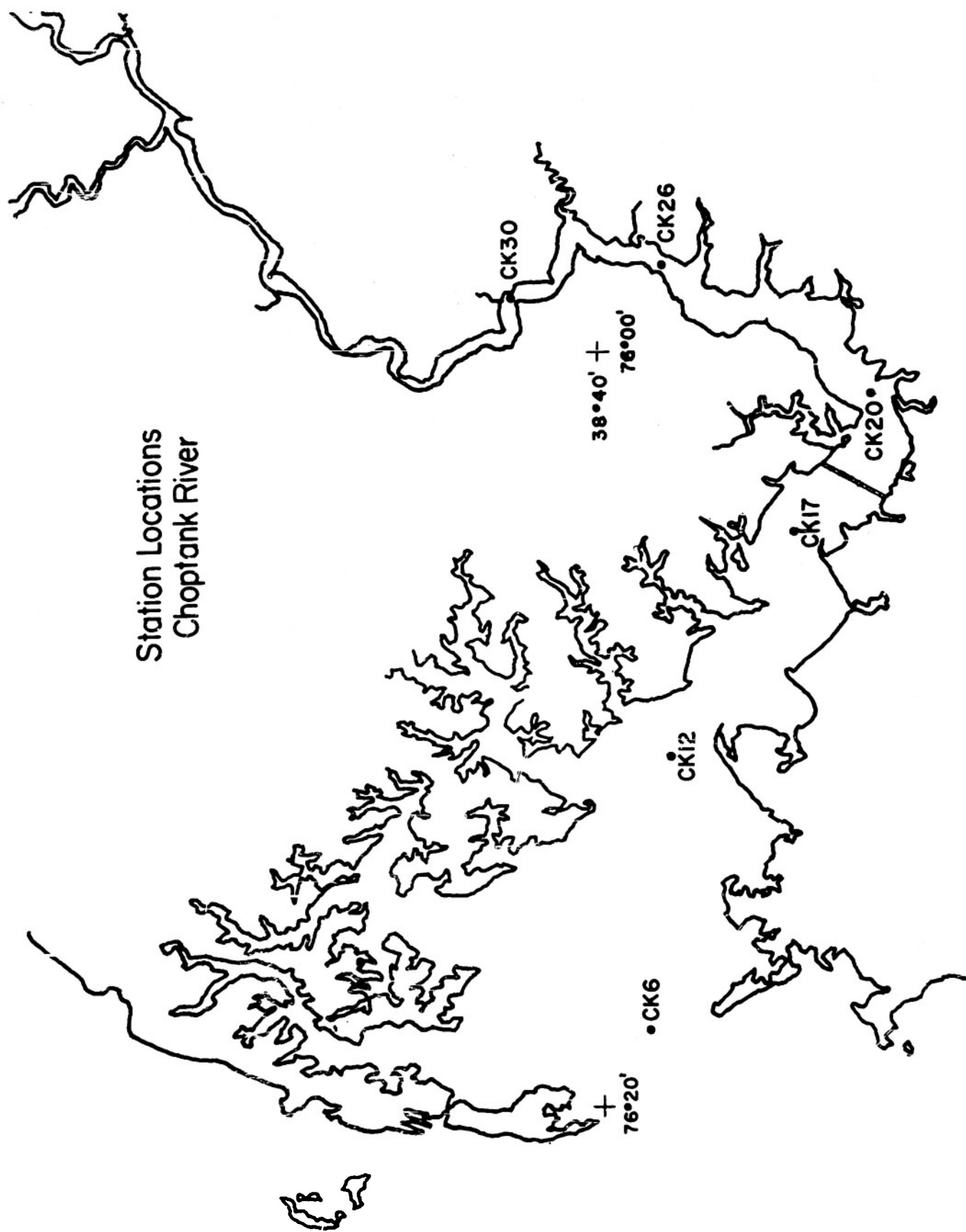
<u>Code</u>	<u>Description</u>
00	Cloudless (from no clouds up to 1/10 coverage)

<u>Code</u>	<u>Description</u>
01	Partly cloudy (from 1/10 to 5/10)
02	Cloudy (over 5/10 up to 9/10)
03	Overcast (over 9/10)
04	Low fog, on ground or at sea
05	Haze
07	Distant lightning
10	Precipitation within sight
11	Thunder, without precipitation
13	Squally weather
16	Waterspout seen
19	Signs of tropical storm
40	Fog
49	Fog in patches
51	Intermittent drizzle
52	Continuous drizzle
57	Drizzle and fog
58	Drizzle and rain, mixed
61	Intermittent rain
62	Continuous rain
67	Rain and fog
69	Rain and snow, mixed
71	Intermittent snow (in flakes)
72	Continuous snow (in flakes)
77	Snow and fog
78	Frozen drizzle (grains of snow)
79	Ice crystals or frozen rain drops
81	Rain showers
83	Snow showers
88	Hail, or rain and hail showers
93	Thunderstorm, with rain (or snow) but without hail
94	Thunderstorm, with hail
97	Heavy thunderstorm

Wind force is given in Beaufort scale units.



Station Locations  
Choptank River



CK-6		1305 EST	Weather 05	
25 Sept 52		Depth 50'	Wind NNW-1	
			Air 23.3°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.52	13.05	172	0.27
5	22.49	13.08	258	0.28
10	22.23	13.33	262	0.31
15	22.04	13.67	270	0.21
20	22.32	14.37	281	0.14
25	22.50	15.19	0	0.00
30	22.65	15.70	192	0.12
35	22.93	17.08	085	0.29
40	23.01	17.69	087	0.36
45	23.11	18.07	088	0.26
48	23.20	18.55	--	--

CK-6		1500 EST	Weather 01	
25 Sept 52		Depth 50'	Wind NNW-2	
			Air 32.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.60	12.38	136	0.38
5	22.56	12.72	054	0.22
10	22.15	13.17	059	0.22
15	22.06	13.21	065	0.43
20	22.10	13.30	064	0.43
25	22.20	14.47	062	0.48
30	22.76	15.46	059	0.46
35	22.83	16.90	055	0.58
40	23.02	17.95	056	0.55
45	23.05	18.05	057	0.41
48	23.06	18.08	--	--

CK-6		1400 EST	Weather 01	
25 Sept 52		Depth 50'	Wind NNW-1	
			Air 26.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.61	12.70	136	0.21
5	22.27	13.16	313	0.11
10	22.02	13.44	321	0.09
15	21.98	13.57	0	0.00
20	22.26	14.32	0	0.00
25	22.48	15.11	071	0.09
30	22.56	15.82	073	0.15
35	22.81	16.85	063	0.25
40	22.97	17.78	068	0.27
45	23.09	18.18	057	0.19
48	23.12	18.21	--	--

CK-6		1600 EST	Weather 01	
25 Sept 52		Depth 50'	Wind N-1	
			Air 32.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.35	12.40	093	0.58
5	22.35	12.40	051	0.58
10	22.18	12.83	050	0.55
15	22.20	13.11	050	0.65
20	22.34	13.43	040	0.77
25	22.37	14.13	080	0.87
30	22.51	15.20	092	0.60
35	22.81	16.83	083	0.43
40	22.97	17.69	029	0.26
45	23.01	17.85	025	0.18
48	23.03	17.93	--	--

CK-6		1700 EST	Weather 01	
25 Sept 52		Depth 50'	Wind N-1	
			Air 24.4°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.02	12.70	066	0.70
5	22.05	12.67	055	0.87
10	22.12	12.82	053	1.05
15	22.20	13.03	054	1.05
20	22.30	13.32	065	0.87
25	22.48	14.19	076	0.65
30	22.72	16.02	080	0.65
35	22.82	16.77	080	0.70
40	22.86	16.92	081	0.58
45	22.96	17.47	059	0.41
48	22.98	17.62	--	--

CK-6		1900 EST	Weather 01	
25 Sept 52		Depth 50'	Wind SSE-2	
			Air 20.6°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.23	13.36	092	0.77
5	22.23	13.35	045	0.82
10	22.33	13.41	050	0.71
15	22.29	13.84	049	0.62
20	22.34	14.27	035	0.52
25	22.52	14.96	034	0.39
30	22.68	15.94	075	0.39
35	22.76	16.50	062	0.15
40	22.85	16.87	302	0.14
45	22.89	17.07	302	0.15
48	22.93	17.59	--	--

CK-6		1800 EST	Weather 01	
25 Sept 52		Depth 50'	Wind N-2	
			Air 21.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.31	13.45	081	0.87
5	22.35	13.49	081	0.87
10	22.39	13.51	169	0.92
15	22.43	13.57	069	0.97
20	22.46	13.98	068	0.82
25	22.46	14.33	068	0.65
30	22.69	15.97	074	0.58
35	22.74	16.40	081	0.58
40	22.89	17.06	079	0.47
45	22.92	17.28	0	0.00
49	22.99	17.68	--	--

CK-6		2000 EST	Weather 01	
25 Sept 52		Depth 50'	Wind SSE-3	
			Air 20.6°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.06	13.02	--	--
5	22.07	13.02	062	0.43
10	22.13	13.06	061	0.46
15	22.21	13.37	036	0.38
20	22.41	14.42	002	0.29
25	22.70	15.92	0	0.00
30	22.80	16.46	181	0.22
35	22.82	16.61	187	0.22
40	22.85	16.77	0	0.00
45	22.89	16.98	284	0.29
48	23.00	17.56	--	--

CK-6		2100 EST	Weather 01	
25 Sept 52		Depth 50'	Wind SSE-4	
			Air -	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.96	12.97	352	0.21
5	22.19	14.26	002	0.19
10	22.17	14.40	346	0.21
15	22.20	14.60	335	0.23
20	22.38	14.97	0	0.00
25	22.48	15.31	192	0.11
30	22.71	15.95	211	0.22
35	22.78	16.42	268	0.31
40	22.89	16.95	270	0.29
45	22.93	17.22	262	0.22
49	22.97	17.43	--	--

CK-6		2300 EST	Weather 01	
25 Sept 52		Depth 50'	Wind SSE-3	
			Air 19.4°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.00	13.29	306	0.76
5	22.20	13.45	294	0.64
10	22.25	13.58	296	0.38
15	22.48	14.43	241	0.38
20	22.58	14.55	240	0.43
25	22.63	14.65	241	0.43
30	22.80	15.54	295	0.36
35	22.83	15.79	296	0.36
40	22.94	16.38	272	0.36
45	22.98	16.62	257	0.26
49	23.01	16.79	--	--

CK-6		2200 EST	Weather 01	
25 Sept 52		Depth 50'	Wind SSE-4	
			Air 18.9°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.02	13.55	157	0.11
5	22.04	13.55	217	0.14
10	22.05	13.51	264	0.23
15	22.14	13.81	274	0.43
20	22.34	14.78	0	0.00
25	22.42	15.00	244	0.34
30	22.67	15.79	245	0.34
35	22.77	16.30	260	0.36
40	22.86	16.78	284	0.41
45	22.91	17.06	257	0.26
49	22.94	17.21	--	--

CK-6		0000 EST	Weather 01	
26 Sept 52		Depth 50'	Wind SSE-1	
			Air -	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.72	12.93	207	0.34
5	21.90	13.45	202	0.48
10	22.01	13.65	247	0.46
15	22.08	13.72	245	0.46
20	22.50	14.43	242	0.48
25	22.53	14.76	232	0.45
30	22.52	14.84	253	0.43
35	22.68	15.65	323	0.34
40	22.76	16.00	322	0.29
45	22.78	16.08	252	0.22
48	22.85	16.49	--	--

CK-6		0100 EST	Weather 01	
26 Sept 52		Depth 50'	Wind 0	
			Air 18.9°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.76	12.75	237	0.45
5	21.80	12.78	237	0.52
10	21.85	13.11	237	0.55
15	22.10	13.50	235	0.29
20	22.39	14.16	236	0.29
25	22.59	15.19	236	0.31
30	22.73	15.82	237	0.26
35	22.76	15.93	238	0.18
40	22.82	16.24	239	0.18
45	22.96	16.89	059	0.18
48	22.99	17.35	--	--

CK-6		0300 EST	Weather 01	
26 Sept 52		Depth 50'	Wind 0	
			Air 18.3°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.92	12.39	191	0.16
5	22.11	12.67	200	0.20
10	22.12	13.18	130	0.16
15	22.27	13.61	100	0.12
20	22.46	14.22	100	0.09
25	22.53	14.64	084	0.14
30	22.72	15.59	069	0.15
35	22.80	16.03	070	0.17
40	22.90	16.56	055	0.21
45	22.92	16.72	055	0.24
49	23.00	17.10	--	--

CK-6		0200 EST	Weather 01	
26 Sept 52		Depth 50'	Wind 0	
			Air 18.9°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.95	12.47	205	0.36
5	21.97	12.59	204	0.34
10	22.13	12.90	222	0.23
15	22.38	14.18	221	0.29
20	22.50	14.66	0	0.50
25	22.56	15.04	0	0.00
30	22.71	15.59	119	0.12
35	22.77	16.10	119	0.09
40	22.90	16.73	030	0.12
45	22.95	17.02	062	0.20
48	22.99	17.20	--	--

CK-6		0400 EST	Weather 01	
26 Sept 52		Depth 50'	Wind 0	
			Air 18.9°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.77	12.44	0	0.00
5	21.88	12.70	0	0.00
10	22.00	13.13	045	0.21
15	22.00	13.27	043	0.24
20	22.41	14.15	043	0.24
25	22.44	14.39	043	0.26
30	22.69	15.36	042	0.24
35	22.83	16.28	042	0.23
40	22.87	16.43	043	0.24
45	22.92	16.67	042	0.24
49	23.00	17.06	--	--

CK-6		0500 EST	Weather 01	
26 Sept 52		Depth 50'	Wind 0	
			Air 20.0°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.77	12.48	092	0.20
5	22.03	12.87	072	0.25
10	21.94	12.98	065	0.45
15	22.13	13.40	067	0.52
20	22.37	13.87	067	0.57
25	22.39	14.12	066	0.41
30	22.69	15.36	065	0.29
35	22.82	15.96	071	0.24
40	22.87	16.29	050	0.21
45	23.00	16.93	070	0.16
48	23.02	17.05	--	--

CK-6		0700 EST	Weather 01	
26 Sept 52		Depth 50'	Wind NNW-2	
			Air -	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.55	12.69	097	0.17
5	21.81	13.18	057	0.26
10	21.87	13.26	040	0.14
15	22.18	14.13	040	0.43
20	22.33	14.52	113	0.22
25	22.52	15.30	0	0.00
30	22.59	15.48	144	0.29
35	22.65	15.93	143	0.29
40	22.74	16.30	0	0.00
45	22.80	16.57	0	0.00
48	22.97	16.89	--	--

CK-6		0600 EST	Weather 01	
26 Sept 52		Depth 50'	Wind NNW-1	
			Air 18.9°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.55	12.50	090	0.38
5	21.84	12.98	068	0.38
10	21.80	13.07	063	0.48
15	22.07	13.64	048	0.46
20	22.38	14.46	048	0.43
25	22.50	15.05	108	0.38
30	22.59	15.41	109	0.34
35	22.69	15.66	099	0.22
40	22.81	16.27	0	0.00
45	22.89	16.68	103	0.26
48	22.91	16.77	080	0.36

CK-6		0800 EST	Weather 01	
26 Sept 52		Depth 50'	Wind 0	
			Air 22.8°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.68	12.95	0	0.00
5	21.68	13.17	036	0.14
10	21.85	13.37	034	0.17
15	22.16	14.07	336	0.17
20	22.36	14.59	250	0.11
25	22.55	15.28	170	0.17
30	22.69	15.83	171	0.20
35	22.79	16.19	262	0.16
40	22.79	16.26	285	0.21
45	22.90	16.83	167	0.27
48	22.91	16.88	--	--

CK-6		0900 EST		Weather 01	
26 Sept 52		Depth 50'		Wind 0	
				Air 20.0°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT		
			DIR (°T)	SPEED (KTS)	
0	21.84	13.05	242	0.24	
5	21.72	13.18	277	0.15	
10	21.85	13.38	276	0.14	
15	21.83	13.76	274	0.19	
20	22.32	14.57	204	0.20	
25	22.43	15.17	238	0.19	
30	22.59	15.47	272	0.25	
35	22.70	15.88	270	0.27	
40	22.83	16.59	267	0.27	
45	22.89	16.79	267	0.23	
49	22.92	17.09	--	--	

CK-6		1100 EST		Weather 01	
26 Sept 52		Depth 50'		Wind 0	
				Air 21.1°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT		
			DIR (°T)	SPEED (KTS)	
0	22.41	12.38	213	0.73	
5	21.94	12.49	215	0.58	
10	21.87	12.51	275	0.55	
15	22.05	13.67	276	0.55	
20	22.11	14.09	262	0.45	
25	22.47	14.73	262	0.34	
30	22.56	15.09	263	0.41	
35	22.66	15.66	228	0.38	
40	22.71	15.80	218	0.41	
45	22.74	15.96	218	0.41	
48	22.85	16.63	--	--	

CK-6		1000 EST		Weather 01	
26 Sept 52		Depth 50'		Wind 0	
				Air 20.0°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT		
			DIR (°T)	SPEED (KTS)	
0	22.13	12.43	218	0.64	
5	21.84	13.15	227	0.43	
10	21.83	13.42	247	0.38	
15	21.86	13.96	262	0.41	
20	22.25	14.33	237	0.38	
25	22.57	15.28	236	0.38	
30	22.59	15.40	236	0.41	
35	22.61	15.48	230	0.41	
40	22.72	16.14	224	0.38	
45	22.83	16.66	214	0.36	

CK-6		1200 EST		Weather 05	
26 Sept 52		Depth 50'		Wind NW-1	
				Air 21.1°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT		
			DIR (°T)	SPEED (KTS)	
0	22.39	12.57	210	0.41	
5	22.06	12.65	220	0.52	
10	22.02	13.26	230	0.46	
15	22.27	13.65	243	0.38	
20	22.38	14.20	206	0.26	
25	22.54	14.97	208	0.26	
30	22.65	15.19	208	0.26	
35	22.67	15.28	210	0.26	
40	22.74	15.68	193	0.41	
45	22.84	16.21	193	0.41	



CK-12		1317 EST	Weather 05	
24 Sept 52		Depth 64'	Wind 0	
			Air 24.4°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.21	11.72	312	0.77
5	22.20	11.64	307	0.52
10	22.07	12.06	312	0.48
16	22.09	12.46	308	0.41
20	22.10	12.78	0	0.00
25	22.13	13.03	0	0.00
30	22.20	13.53	115	0.26
35	22.33	14.04	116	0.38
40	22.27	14.21	112	0.53
45	22.26	14.28	107	0.55
50	22.29	14.48	125	0.50
55	22.41	14.76	130	0.57
60	22.58	15.03	131	0.63
62	--	--	130	0.75

CK-12		1500 EST	Weather 05	
24 Sept 52		Depth 62'	Wind NW-1	
			Air 25.0°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.54	11.77	079	0.14
5	22.56	11.80	082	0.14
10	22.31	12.34	357	0.20
15	22.27	13.28	090	0.14
20	22.28	13.49	102	0.20
25	22.27	13.60	--	--
30	22.26	13.63	089	0.55
35	22.26	13.73	--	--
40	22.28	13.93	077	0.41
45	22.28	14.11	--	--
50	22.30	14.22	095	0.41
55	22.35	14.42	--	--
60	22.45	14.58	147	0.50

CK-12		1400 EST	Weather 05	
24 Sept 52		Depth 62'	Wind 0	
			Air 25.0°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.37	11.68	329	0.22
5	22.26	11.72	317	0.25
10	22.11	11.97	327	0.27
15	22.12	12.18	298	0.45
20	22.24	13.27	148	0.29
25	22.30	13.56	--	--
30	22.29	13.80	109	0.58
35	22.28	13.88	--	--
40	22.28	13.93	108	0.34
45	22.29	14.05	--	--
50	22.33	14.43	109	0.55
55	22.42	14.56	--	--
60	22.57	14.79	118	0.66

CK-12		1600 EST	Weather 05	
24 Sept 52		Depth 62'	Wind NW-1	
			Air 31.1°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.51	12.11	110	0.29
5	22.27	12.81	090	0.36
10	22.23	12.94	050	0.55
15	22.24	13.10	048	0.38
20	22.22	13.28	078	0.45
25	22.18	13.38	--	--
30	22.16	13.41	080	0.53
35	22.16	13.41	--	--
40	22.16	13.62	082	0.55
45	22.19	13.80	--	--
50	22.20	13.94	118	0.52
55	22.35	14.32	--	--
60	22.41	14.43	127	0.58



CK-12		1700 EST	Weather 02	
24 Sept 52		Depth 64'	Wind N-1	
			Air 26.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.45	12.02	142	0.18
5	22.48	12.54	002	0.29
10	22.29	12.73	057	0.46
15	22.27	13.01	054	0.52
20	22.26	13.45	052	0.52
25	22.23	13.45	--	--
30	22.18	13.48	052	0.52
35	22.15	13.59	--	--
40	22.13	13.70	056	0.50
45	22.15	13.91	--	--
50	22.33	14.28	077	0.46
55	22.53	14.61	--	--
60	22.55	14.93	124	0.70

CK-12		1900 EST	Weather 01	
24 Sept 52		Depth 64'	Wind NE-2	
			Air 21.1°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.42	11.87	247	0.16
5	22.43	11.87	252	0.12
10	22.45	11.90	082	0.20
15	22.49	12.33	082	0.17
20	22.50	12.59	077	0.31
25	22.47	12.96	--	--
30	22.42	13.00	082	0.31
35	22.37	13.28	--	--
40	22.57	14.13	101	0.41
45	22.71	14.40	--	--
50	22.79	14.44	107	0.45
55	22.83	14.47	--	--
60	22.91	14.60	090	0.38

CK-12		1800 EST	Weather 02	
24 Sept 52		Depth 64'	Wind NE-1	
			Air 22.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.48	12.32	--	--
5	22.46	12.58	062	0.29
10	22.35	12.77	062	0.41
15	22.41	12.98	062	0.45
20	22.40	13.37	062	0.43
25	22.35	13.36	--	--
30	22.30	13.47	062	0.38
35	22.31	13.80	--	--
40	22.35	13.98	062	0.36
45	22.37	13.96	--	--
50	22.51	14.56	122	0.52
55	22.79	14.84	--	--
60	22.79	14.85	121	0.43
64	22.79	14.85	--	--

CK-12		2000 EST	Weather 00	
24 Sept 52		Depth 64'	Wind SE-2	
			Air 21.1°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.48	11.61	311	0.32
5	22.54	11.62	297	0.24
10	22.66	12.04	286	0.12
15	22.66	12.31	124	0.19
20	22.62	12.81	123	0.21
25	22.62	12.86	--	--
30	22.61	12.96	121	0.24
35	22.58	13.22	--	--
40	22.76	13.82	122	0.25
45	22.87	14.07	--	--
50	22.88	14.10	122	0.21
55	22.93	14.17	--	--
60	23.04	14.34	122	0.19

CK-12	2100 EST	Weather 01		
		Wind SE-2		
24 Sept 52	Depth 64'	Air 20.0°C		
DEPTH ( FT.)	TEMP ( °C)	SALINITY ( ‰)	CURRENT	
			DIR ( °T)	SPEED ( KTS)
0	22.35	11.82	294	0.38
5	22.36	11.83	285	0.32
10	22.39	12.00	288	0.19
15	22.37	12.62	0	0.00
20	22.39	12.92	112	0.17
25	22.39	13.02	--	--
30	22.45	13.40	122	0.16
35	22.46	13.62	--	--
40	22.52	13.88	123	0.25
45	22.63	14.02	--	--
50	22.66	14.08	115	0.22
55	22.66	14.16	--	--
60	22.69	14.35	113	0.20

CK-12	2300 EST	Weather 00		
		Wind ESE-1		
24 Sept 52	Depth 64'	Air 19.4°C		
DEPTH ( FT.)	TEMP ( °C)	SALINITY ( ‰)	CURRENT	
			DIR ( °T)	SPEED ( KTS)
0	22.40	12.17	283	0.35
5	22.45	12.26	275	0.30
10	22.58	12.84	265	0.25
15	22.59	13.08	265	0.22
20	22.63	13.52	264	0.20
25	22.64	13.66	--	--
30	22.65	13.73	273	0.14
35	22.69	13.90	--	--
40	22.72	13.98	102	0.11
45	22.78	14.28	--	--
50	22.84	14.45	104	0.09
55	22.89	14.61	--	--
60	22.89	14.65	265	0.14

CK-12		2200 EST		Weather 00	
24 Sept 52		Depth 64'		Wind ESE-1	
				Air 19.4°C	
DEPTH ( FT.)	TEMP ( °C)	SALINITY ( ‰)	CURRENT		
			DIR ( °T)	SPEED ( KTS)	
0	22.30	12.18	291	0.33	
5	22.34	12.21	292	0.24	
10	22.33	12.79	282	0.21	
15	22.33	13.08	272	0.21	
20	22.33	13.16	263	0.20	
25	22.32	13.25	--	--	
30	22.34	13.54	204	0.14	
35	22.36	13.64	--	--	
40	22.51	14.02	124	0.21	
45	22.54	14.12	--	--	
50	22.65	14.33	124	0.23	
55	22.70	14.51	--	--	
60	22.71	14.53	124	0.17	

CK-12		0000 EST		Weather 00	
25 Sept 52		Depth 64'		Wind E-1	
				Air 18.3°C	
DEPTH ( FT.)	TEMP ( °C)	SALINITY ( ‰)	CURRENT		
			DIR ( °T)	SPEED ( KTS)	
0	22.02	11.64	293	0.82	
5	22.48	12.66	293	0.44	
10	22.36	12.96	287	0.39	
15	22.39	13.38	313	0.31	
20	22.42	13.63	311	0.25	
25	22.49	13.78	--	--	
30	22.50	14.04	311	0.12	
35	22.49	14.07	--	--	
40	22.58	14.11	0	0.00	
45	22.73	14.39	--	--	
50	22.70	14.55	202	0.11	
55	22.69	14.57	--	--	
60	22.67	14.65	0	0.00	

CK-12		0100 EST		Weather 01	
				Wind ESE-1	
25 Sept 52		Depth 64'		Air 18.9°C	
DEPTH ( FT.)	TEMP ( °C)	SALINITY ( ‰)	CURRENT		
			DIR ( °T)	SPEED ( KTS)	
0	22.07	11.70	306	0.97	
5	22.45	12.44	305	0.82	
10	22.51	12.93	303	0.43	
15	22.52	13.30	295	0.64	
20	22.52	13.49	289	0.24	
25	22.50	13.69	--	--	
30	22.50	13.80	0	0.00	
35	22.57	14.10	--	--	
40	22.59	14.20	0	0.00	
45	22.68	14.37	--	--	
50	22.66	14.49	114	0.17	
55	22.64	14.56	--	--	
60	22.66	14.65	114	0.19	

CK-12		0300 EST		Weather 01	
				Wind ENE-1	
25 Sept 52		Depth 64'		Air 17.8°C	
DEPTH ( FT.)	TEMP ( °C)	SALINITY ( ‰)	CURRENT		
			DIR ( °T)	SPEED ( KTS)	
0	21.83	11.54	309	0.33	
5	21.87	11.56	346	0.23	
10	22.38	12.50	023	0.15	
15	22.54	13.17	0	0.00	
20	22.54	13.47	0	0.00	
25	22.55	13.53	--	--	
30	22.53	13.73	0	0.00	
35	22.57	14.05	--	--	
40	22.58	14.14	125	0.19	
45	22.54	14.16	--	--	
50	22.54	14.20	122	0.21	
55	22.58	14.39	--	--	
60	22.63	14.65	117	0.27	

CK-12		0200 EST		Weather 01	
25 Sept 52		Depth 64'		Wind E-1	
				Air 17.2°C	
DEPTH ( FT.)	TEMP ( °C)	SALINITY ( ‰)	CURRENT		
			Dir ( °T)	SPEED ( KTS)	
0	21.95	11.52	304	0.92	
5	22.23	11.70	303	0.70	
10	22.23	11.95	302	0.58	
15	22.55	13.27	304	0.24	
20	22.55	13.36	298	0.19	
25	22.53	13.52	--	--	
30	22.51	13.74	0	0.00	
35	22.55	13.94	--	--	
40	22.65	14.30	113	0.15	
45	22.65	14.37	--	--	
50	22.63	14.40	105	0.15	
55	22.65	14.54	--	--	
60	22.66	14.66	122	0.25	

CK-12		0400 EST		Weather 01	
25 Sept 52		Depth 64'		Wind ENE-1	
				Air 16.7°C	
DEPTH ( FT.)	TEMP ( °C)	SALINITY ( ‰)	CURRENT		
			DIR ( °T)	SPEED ( KTS)	
0	21.99	11.76	0	0.00	
5	22.00	11.77	032	0.14	
10	22.49	13.12	082	0.27	
15	22.52	13.43	089	0.25	
20	22.54	13.53	083	0.17	
25	22.54	13.71	--	--	
30	22.52	13.81	090	0.21	
35	22.51	13.85	--	--	
40	22.52	13.84	087	0.21	
45	22.51	13.94	--	--	
50	22.54	14.17	091	0.23	
55	22.57	14.31	--	--	
60	22.70	14.47	122	0.27	

CK-12		0500 EST	Weather 01	
25 Sept 52		Depth 64'	Wind ENE-1	
			Air 18.3°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.06	12.43	0	0.00
5	22.09	12.50	088	0.12
10	22.53	13.12	089	0.17
15	22.51	13.37	084	0.31
20	22.53	13.57	085	0.34
25	22.50	13.63	--	--
30	22.48	13.65	087	0.36
35	22.48	13.66	--	--
40	22.48	13.67	088	0.41
45	22.51	13.92	--	--
50	22.54	14.11	099	0.43
55	22.60	14.26	--	--
60	22.72	14.69	109	0.52

CK-12		0700 EST	Weather 01	
25 Sept 52		Depth 64'	Wind NE-1	
			Air 16.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.79	12.20	0	0.00
5	22.02	12.34	0	0.00
10	22.47	12.86	0	0.00
15	22.48	13.21	102	0.29
20	22.51	13.35	103	0.31
25	22.48	13.36	--	--
30	22.48	13.41	104	0.34
35	22.47	13.74	--	--
40	22.48	13.80	104	0.29
45	22.52	14.01	--	--
50	22.61	14.40	104	0.34
55	22.64	14.57	--	--
60	22.72	14.83	131	0.46

CK-12		0600 EST	Weather 01	
25 Sept 52		Depth 64'	Wind NE-1	
			Air 18.3°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.89	12.29	0	0.00
5	22.48	12.60	099	0.13
10	22.64	13.00	098	0.29
15	22.68	13.17	098	0.29
20	22.64	13.43	097	0.36
25	22.63	13.48	--	--
30	22.60	13.50	096	0.36
35	22.60	13.51	--	--
40	22.59	13.55	094	0.45
45	22.60	13.80	--	--
50	22.68	14.14	104	0.43
55	22.72	14.41	--	--
60	22.82	14.91	106	0.50

CK-12		0800 EST	Weather 01	
25 Sept 52		Depth 64'	Wind NE-1	
			Air 17.8°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.90	11.77	--	--
5	21.92	11.87	001	0.43
10	22.21	12.45	012	0.16
15	22.53	13.18	0	0.00
20	22.55	13.28	0	0.00
25	22.55	13.32	--	--
30	22.55	13.44	0	0.00
35	22.57	13.75	--	--
40	22.63	14.02	115	0.14
45	22.66	14.19	--	--
50	22.71	14.50	116	0.16
55	22.76	14.61	--	--
60	22.78	14.67	117	0.27

CK-12		0900 EST	Weather 01	
25 Sept 52		Depth 64'	Wind NE-1	
			Air 19.4°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.86	12.07	--	--
5	21.91	12.19	327	0.28
10	22.20	12.64	328	0.15
15	22.38	13.12	329	0.14
20	22.40	13.29	328	0.09
25	22.41	13.46	--	--
30	22.44	13.70	171	0.11
35	22.46	14.07	--	--
40	22.47	14.17	125	0.14
45	22.47	14.26	--	--
50	22.52	14.48	120	0.21
55	22.61	14.74	--	--
60	22.65	14.75	119	0.25

CK-12		1100 EST	Weather 01	
25 Sept 52		Depth 64'	Wind N-1	
			Air 21.1°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.15	11.63	--	--
5	22.09	11.74	267	0.24
10	22.34	13.16	267	0.14
15	22.45	13.61	265	0.14
20	22.50	14.00	0	0.00
25	22.54	14.19	--	--
30	22.54	14.32	259	0.09
35	22.54	14.36	--	--
40	22.54	14.43	261	0.11
45	22.54	14.49	--	--
50	22.59	14.76	127	0.11
55	22.59	14.85	--	--
60	22.61	14.90	129	0.11

CK-12		1000 EST	Weather 01	
25 Sept 52		Depth 64'	Wind NE-1	
			Air 21.1°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.05	12.12	247	0.30
5	22.05	12.13	267	0.35
10	22.23	12.80	270	0.15
15	22.42	13.28	270	0.15
20	22.46	13.59	270	0.21
25	22.53	13.72	--	--
30	22.54	13.74	269	0.21
35	22.54	13.92	--	--
40	22.52	14.15	0	0.00
45	22.55	14.41	--	--
50	22.56	14.56	106	0.15
55	22.56	14.56	--	--
60	22.59	14.77	105	0.19

CK-12		1200 EST	Weather 01	
26 Sept 52		Depth 64'	Wind NNE-2	
			Air 22.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.27	11.23	315	0.72
5	22.31	13.10	291	0.30
10	22.35	13.39	279	0.25
15	22.39	13.51	286	0.21
20	22.46	14.04	0	0.00
25	22.46	14.08	--	--
30	22.47	14.15	286	0.09
35	22.47	14.24	--	--
40	22.52	14.44	0	0.00
45	22.55	14.61	--	--
50	22.56	14.71	137	0.11
55	22.56	14.79	--	--
60	22.58	14.92	142	0.09

CK-17		0700 EST	Weather 05	
24 Sept 52		Depth 47'	Wind 0	
			Air 17.8°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.83	10.62	0	0.00
5	21.87	10.60	0	0.00
10	21.83	10.68	0	0.00
15	21.83	10.68	087	0.46
20	21.84	10.72	087	0.22
25	21.92	10.82	087	0.23
30	21.97	10.86	087	0.22
35	21.98	10.88	087	0.21
40	22.05	10.91	088	0.21
44	22.06	10.93	088	0.19

CK-17		0900 EST	Weather 05	
24 Sept 52		Depth 47'	Wind SSE-1	
			Air 18.1°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.87	10.35	269	0.32
5	21.90	10.47	269	0.31
10	21.92	10.57	264	0.26
15	21.90	10.71	259	0.21
20	21.83	10.77	259	0.17
25	21.85	10.83	259	0.16
30	21.93	10.89	259	0.16
35	21.99	10.93	260	0.20
40	22.01	10.96	259	0.21
44	22.05	11.00	260	0.20

CK-17		0800 EST	Weather 05	
24 Sept 52		Depth 47'	Wind 0	
			Air 17.5°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.89	10.43	222	0.16
5	21.89	10.61	242	0.16
10	21.85	10.72	0	0.00
15	21.85	10.72	0	0.00
20	21.83	10.74	0	0.00
25	21.83	10.74	082	0.09
30	21.84	10.78	082	0.09
35	21.96	10.88	072	0.11
40	22.06	11.00	052	0.09
44	22.08	11.00	0	0.00

CK-17		1000 EST	Weather 05	
24 Sept 52		Depth 46'	Wind 0	
			Air 19.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.93	10.26	265	0.41
5	21.81	10.33	265	0.50
10	21.80	10.35	265	0.50
15	21.89	10.67	266	0.38
20	21.92	10.72	266	0.38
25	21.84	10.78	265	0.31
30	21.83	10.82	265	0.29
35	22.00	10.94	265	0.29
40	22.02	10.95	265	0.22
43	22.02	10.95	265	0.18

CK-17		1104 EST	Weather 05	
24 Sept 52		Depth 46'	Wind 0	
			Air 21.1°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.15	10.08	277	0.45
5	21.91	10.31	276	0.58
10	21.88	10.44	276	0.53
15	21.96	10.71	261	0.41
20	21.98	10.76	257	0.36
25	22.00	10.77	266	0.41
30	21.95	10.81	266	0.38
35	21.95	10.83	266	0.38
40	21.94	10.87	266	0.34
43	21.98	10.92	267	0.26

CK-17		1300 EST	Weather 01	
24 Sept 52		Depth 44'	Wind NW-1	
			Air 21.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.79	9.71	276	0.34
5	22.15	9.96	286	0.48
10	22.06	10.26	266	0.34
15	21.92	10.39	256	0.31
20	21.95	10.41	246	0.29
25	21.98	10.61	236	0.26
30	22.02	10.76	246	0.17
35	22.01	10.82	266	0.15
40	22.00	10.84	276	0.15
42	22.00	10.85	276	0.11

CK-17		1200 EST	Weather 05	
24 Sept 52		Depth 45'	Wind 0	
			Air 22.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.62	9.80	281	0.66
5	22.04	10.25	281	0.58
10	21.99	10.36	281	0.55
15	21.98	10.57	276	0.45
20	21.99	10.60	261	0.41
25	21.99	10.66	266	0.36
30	22.01	10.74	266	0.36
35	22.02	10.81	271	0.31
40	22.02	10.81	276	0.31
42	22.02	10.81	276	0.29

CK-17		1403 EST	Weather 02	
24 Sept 52		Depth 44'	Wind WNW-1	
			Air 21.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.88	9.85	275	0.09
5	22.09	10.10	277	0.21
10	21.91	10.31	277	0.14
15	21.99	10.62	282	0.11
20	21.99	10.71	283	0.06
25	21.97	10.79	0	0.00
30	21.98	10.81	113	0.09
35	22.01	10.85	125	0.14
40	22.02	10.85	125	0.17
42	22.02	10.85	123	0.20

CK-17		1500 EST	Weather 02	
24 Sept 52		Depth 45'	Wind WNW-1	
			Air 21.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.96	10.24	098	0.14
5	21.95	10.28	101	0.16
10	21.95	10.38	104	0.16
15	22.00	10.60	098	0.21
20	22.00	10.77	099	0.27
25	21.98	10.85	097	0.45
30	21.99	10.93	097	0.46
35	22.02	10.98	097	0.48
40	22.03	11.03	097	0.41
45	22.04	11.04	097	0.38

CK-17		1700 EST	Weather 00	
24 Sept 52		Depth 49'	Wind 0	
			Air 21.9°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.15	10.27	110	0.53
5	22.01	10.38	110	0.53
10	22.01	10.47	110	0.57
15	22.02	10.62	110	0.57
20	22.02	10.76	100	0.76
25	22.04	10.94	100	0.73
30	22.06	11.00	100	0.78
35	22.05	11.01	100	0.81
40	22.05	11.01	100	0.78
45	22.06	11.02	100	0.60
49	--	--	100	0.48

CK-17		1603 EST	Weather 02	
24 Sept 52		Depth 47'	Wind WNW-1	
			Air 22.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.53	10.08	089	0.45
5	21.98	10.26	104	0.29
10	21.96	10.31	104	0.46
15	21.98	10.47	104	0.43
20	22.01	10.72	109	0.50
25	22.02	10.84	094	0.58
30	22.01	10.85	094	0.67
35	22.01	10.92	097	0.70
40	22.01	10.94	097	0.59
44	22.01	10.94	098	0.51

CK-17		1800 EST	Weather 00	
24 Sept 52		Depth 49'	Wind NW-1	
			Air 21.1°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.24	10.32	100	0.53
5	22.16	10.47	100	0.60
10	22.14	10.57	100	0.60
15	22.02	10.72	100	0.60
20	22.02	10.83	100	0.64
25	22.03	10.84	100	0.67
30	22.05	10.92	100	0.64
35	22.12	11.12	100	0.53
40	22.07	11.08	100	0.45
45	22.13	11.21	100	0.53
49	--	--	100	0.40



CK-17		1900 EST	Weather 00	
24 Sept 52		Depth 48'	Wind E-1	
			Air 20.3°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.13	10.41	092	0.35
5	22.16	10.47	092	0.45
10	22.11	10.80	102	0.45
15	22.06	10.96	092	0.40
20	22.09	10.99	102	0.48
25	22.09	11.02	102	0.45
30	22.09	11.03	102	0.40
35	22.09	11.07	102	0.40
40	22.09	11.11	102	0.40
45	22.10	11.11	102	0.35

CK-17		2100 EST	Weather 00	
24 Sept 52		Depth 45'	Wind E-2	
			Air 20.0°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.28	10.70	289	0.22
5	22.28	10.74	279	0.25
10	22.13	10.96	277	0.20
15	22.13	11.09	0	0.00
20	22.14	11.09	0	0.00
25	22.15	11.10	0	0.00
30	22.14	11.11	169	0.12
35	22.15	11.13	0	0.00
40	22.15	11.15	0	0.00
42	22.15	11.15	0	0.00

CK-17		2000 EST	Weather 00	
24 Sept 52		Depth 48'	Wind E-2	
			Air 20.0°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.13	10.51	031	0.21
5	22.13	10.56	089	0.26
10	22.13	10.65	089	0.29
15	22.10	11.04	099	0.31
20	22.12	11.07	109	0.29
25	22.12	11.08	109	0.29
30	22.12	11.08	109	0.34
35	22.12	11.07	099	0.36
40	22.12	11.06	099	0.31
42	22.12	11.09	089	0.29

CK-17		2200 EST	Weather 00	
24 Sept 52		Depth 45'	Wind E-2	
			Air 20.0°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.15	10.57	287	0.32
5	22.16	10.64	287	0.32
10	22.15	10.82	277	0.28
15	22.10	10.97	267	0.21
20	22.12	11.02	247	0.21
25	22.13	11.11	247	0.16
30	22.14	11.15	237	0.12
35	22.14	11.15	247	0.12
40	22.15	11.15	257	0.12
42	22.15	11.15	257	0.11

CK-17		2300 EST	Weather 00	
24 Sept 52		Depth 46'	Wind E-1	
			Air 18.9°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.95	10.20	265	0.52
5	21.84	10.20	265	0.60
10	21.84	10.41	275	0.63
15	22.12	11.09	277	0.41
20	22.10	11.10	277	0.34
25	22.10	11.10	275	0.29
30	22.10	11.10	265	0.26
35	22.10	11.15	275	0.29
40	22.10	11.15	267	0.31
44	22.11	11.15	267	0.34

CK-17		0100 EST	Weather 00	
25 Sept 52		Depth 44'	Wind E-1	
			Air 17.5°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.85	10.16	287	0.33
5	22.05	10.38	272	0.38
10	22.03	10.64	262	0.33
15	22.03	10.79	262	0.32
20	22.04	10.90	270	0.28
25	22.09	11.18	280	0.19
30	22.13	11.52	280	0.11
35	22.22	12.09	090	0.12
40	22.26	12.48	0	0.00
41	22.28	12.57	0	0.00

CK-17		0000 EST	Weather 00	
25 Sept 52		Depth 44'	Wind E-1	
			Air 18.3°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.83	10.16	267	0.53
5	21.83	10.22	277	0.61
10	22.08	10.63	267	0.48
15	22.08	10.76	267	0.45
20	22.10	10.93	267	0.45
25	22.09	11.05	267	0.31
30	22.09	11.11	267	0.34
35	22.10	11.12	267	0.22
40	22.10	11.14	267	0.18
41	22.11	11.15	267	0.18

CK-17		0200 EST	Weather 00	
25 Sept 52		Depth 44'	Wind NNE-1	
			Air -	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.84	9.89	289	0.31
5	21.85	10.12	279	0.35
10	21.79	10.21	280	0.32
15	22.00	10.55	270	0.20
20	22.02	10.82	268	0.15
25	22.13	11.26	267	0.11
30	22.16	11.52	087	0.12
35	22.21	11.70	087	0.19
40	22.30	12.76	088	0.16
41	22.31	12.75	0	0.00

CK-17		0307 EST	Weather 00	
25 Sept 52		Depth 44'	Wind NNE-1	
			Air 16.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.79	9.90	277	0.11
5	21.82	10.17	277	0.16
10	21.84	10.24	277	0.09
15	22.02	10.74	0	0.00
20	22.06	11.11	0	0.00
25	22.08	11.23	098	0.16
30	22.13	11.39	092	0.21
35	22.17	12.09	089	0.29
40	22.27	12.58	089	0.21
41	22.30	12.87	097	0.16

CK-17		0500 EST	Weather 00	
25 Sept 52		Depth 46'	Wind NNW-1	
			Air 16.4°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.76	10.20	0	0.00
5	21.87	10.33	099	0.15
10	22.03	10.76	100	0.21
15	22.06	10.91	090	0.28
20	22.11	11.05	092	0.45
25	22.14	11.24	102	0.52
30	22.24	11.97	102	0.60
35	22.33	13.01	092	0.67
40	22.38	13.40	100	0.24
43	22.39	13.53	100	0.21

CK-17		0400 EST	Weather 00	
25 Sept 52		Depth 44'	Wind NNW-1	
			Air 16.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.84	10.21	0	0.00
5	21.87	10.31	0	0.00
10	21.90	10.47	102	0.22
15	22.03	10.84	102	0.09
20	22.06	11.08	102	0.17
25	22.10	11.16	102	0.21
30	22.15	11.30	092	0.27
35	22.25	12.11	101	0.26
40	22.26	12.33	100	0.17
41	22.27	12.44	100	0.20

CK-17		0604 EST	Weather 02	
25 Sept 52		Depth 49'	Wind NNW-1	
			Air 16.1°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.69	10.18	110	0.31
5	21.76	10.30	110	0.36
10	21.99	10.68	100	0.36
15	22.05	10.77	100	0.48
20	22.07	10.94	090	0.57
25	22.18	11.67	090	0.61
30	22.28	12.50	090	0.70
35	22.34	13.05	091	0.60
40	22.42	13.31	090	0.48
45	22.42	13.33	090	0.35
48	--	--	090	0.28

CK-20		1300 EST	Weather 02	
23 Sept 52		Depth 40'	Wind N-2	
			Air 22.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.89	8.56	205	0.22
5	21.70	8.55	217	0.26
10	22.06	8.93	220	0.22
15	22.13	9.07	212	0.22
20	22.14	9.16	212	0.17
25	22.15	9.19	268	0.15
30	22.15	9.21	289	0.16
35	22.25	9.47	322	0.16
39	22.33	9.58	--	--

CK-20		1500 EST	Weather 01	
23 Sept 52		Depth 35'	Wind N-1	
			Air 32.8°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.32	8.76	114	0.16
5	22.03	9.02	070	0.21
10	22.06	9.12	049	0.43
15	22.09	9.23	049	0.52
20	22.13	9.35	041	0.52
25	22.14	9.39	037	0.43
30	21.95	9.46	044	0.45
34	21.84	9.51	171	0.31

CK-20		1400 EST	Weather 02	
23 Sept 52		Depth 40'	Wind NW-2	
			Air 27.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.97	8.70	122	0.20
5	21.86	8.81	124	0.11
10	22.04	8.93	0	0.00
15	22.07	8.95	325	0.11
20	22.10	9.06	327	0.11
25	22.09	9.18	054	0.12
30	22.26	9.55	052	0.12
33	22.28	9.57	--	--
35	--	--	053	0.14

CK-20		1600 EST	Weather 01	
23 Sept 52		Depth 40'	Wind N-1	
			Air 21.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.41	9.11	043	1.14
5	21.90	9.12	038	0.97
10	22.06	9.23	033	1.01
15	22.09	9.30	057	1.05
20	21.75	9.25	057	1.05
25	21.86	9.38	061	1.05
30	21.78	9.33	056	1.01
35	21.74	9.33	046	1.05
40	--	--	038	1.01

CK-20		1700 EST	Weather 01	
23 Sept 52		Depth 41'	Wind 0	
			Air 22.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.26	9.39	039	1.14
5	22.32	9.45	053	1.09
10	22.21	9.49	048	1.14
15	22.23	9.53	048	1.21
20	22.18	9.55	044	1.14
25	22.12	9.53	034	1.05
30	22.11	9.54	041	1.01
35	22.09	9.49	041	1.05
40	22.09	9.49	040	1.05

CK-20		1900 EST	Weather 02	
23 Sept 52		Depth 42'	Wind N-2	
			Air 20.0°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.17	9.38	034	0.58
5	22.24	9.43	033	0.58
10	22.18	9.46	033	0.58
15	22.18	9.46	038	0.77
20	21.86	9.39	038	0.77
25	21.81	9.42	034	0.77
30	21.84	9.46	033	0.70
35	21.94	9.51	033	0.65
40	21.99	9.61	034	0.58

CK-20		1800 EST	Weather 02	
23 Sept 52		Depth 42'	Wind W-2	
			Air 21.1°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.16	9.21	042	0.87
5	22.16	9.30	042	0.97
10	22.10	9.33	042	1.01
15	22.20	9.37	042	1.01
20	22.20	9.43	041	0.97
25	22.19	9.43	040	0.77
30	22.19	9.45	040	0.92
35	22.20	9.45	042	0.97
40	22.22	9.48	042	0.77

CK-20		2000 EST	Weather 02	
23 Sept 52		Depth 42'	Wind W-1	
			Air 18.3°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.15	9.47	017	0.34
5	22.13	9.48	017	0.39
10	22.17	9.56	017	0.34
15	22.20	9.62	017	0.34
20	22.22	9.64	017	0.34
25	22.13	9.65	019	0.50
30	22.02	9.63	019	0.58
35	22.25	9.86	019	0.50
40	22.43	10.15	019	0.50

CK-20		2100 EST	Weather 02	
23 Sept 52		Depth 42'	Wind ESE-1	
			Air 17.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.84	9.40	317	0.14
5	22.08	9.47	318	0.11
10	22.17	9.55	0	0.00
15	22.21	9.57	0	0.00
20	22.22	9.59	0	0.00
25	22.24	9.63	074	0.15
30	22.23	9.69	053	0.15
35	22.26	9.92	047	0.15
40	22.38	10.18	0	0.00

CK-20		2303 EST	Weather 02	
23 Sept 52		Depth 42'	Wind SE-1	
			Air 16.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.74	8.94	271	0.28
5	21.85	9.05	251	0.60
10	21.98	9.23	243	0.50
15	22.10	9.40	244	0.57
20	22.16	9.54	246	0.50
25	22.21	9.62	246	0.52
30	22.20	9.74	257	0.46
35	22.23	9.83	257	0.43
40	22.30	9.96	257	0.41

CK-20		2200 EST	Weather 02	
23 Sept 52		Depth 42'	Wind W-1	
			Air 17.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.69	8.95	267	0.32
5	21.94	9.21	--	--
10	22.04	9.43	247	0.28
15	22.15	9.51	247	0.28
20	22.21	9.60	252	0.24
25	22.22	9.65	252	0.24
30	22.27	9.82	255	0.21
35	22.30	10.02	255	0.19
40	22.35	10.10	255	0.15

CK-20		0000 EST	Weather 02	
24 Sept 52		Depth 41'	Wind SE-1	
			Air 20.0°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.78	9.07	266	0.39
5	21.83	9.08	263	0.47
10	21.92	9.23	199	0.39
15	21.92	9.27	189	0.39
20	21.97	9.35	188	0.39
25	22.04	9.51	188	0.34
30	22.11	9.54	188	0.34
35	22.11	9.55	187	0.28
40	22.11	9.65	187	0.29

CK-20		0100 EST	Weather 02	
24 Sept 52		Depth 41'	Wind SE-1	
			Air 18.3°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.82	9.22	--	--
5	21.83	9.22	--	--
10	21.88	9.22	158	0.22
15	21.92	9.27	136	0.22
20	21.98	9.32	216	0.20
25	22.01	9.42	219	0.20
30	22.05	9.50	220	0.21
35	22.08	9.51	221	0.16
40	22.09	9.60	243	0.21

CK-20		0300 EST	Weather 02	
24 Sept 52		Depth 41'	Wind 0	
			Air 17.8°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.56	8.60	0	0.00
5	21.62	8.72	0	0.00
10	22.01	9.27	100	0.11
15	22.05	9.42	042	0.23
20	22.11	9.61	044	0.27
25	22.15	9.74	048	0.29
30	22.31	10.24	072	0.52
35	22.35	10.34	076	0.46
40	22.36	10.37	069	0.46

CK-20		0200 EST	Weather 02	
24 Sept 52		Depth 41'	Wind 0	
			Air 17.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.65	8.55	206	0.22
5	21.76	8.74	196	0.26
10	21.83	8.97	0	0.00
15	21.94	9.23	0	0.00
20	22.02	9.32	0	0.00
25	22.10	9.41	019	0.11
30	22.11	9.51	018	0.14
35	22.10	9.55	016	0.14
40	22.10	9.56	059	0.16

CK-20		0400 EST	Weather 02	
24 Sept 52		Depth 41'	Wind 0	
			Air 17.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.72	8.93	018	0.45
5	21.86	9.13	028	0.38
10	22.04	9.40	038	0.62
15	22.22	9.76	038	0.69
20	22.33	10.06	037	0.77
25	22.36	10.22	037	0.80
30	22.37	10.29	036	0.77
35	22.37	10.31	065	0.74
40	22.37	10.31	044	0.62

CK-20		0500 EST		Weather 02	
24 Sept 52		Depth 41'		Wind 0	
				Air 18.3°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT		
			DIR (°T)	SPEED (KTS)	
0	21.70	9.30	050	0.62	
5	21.79	9.40	050	0.80	
10	21.81	9.50	050	0.62	
15	21.96	9.63	049	0.62	
20	22.03	9.69	049	0.74	
25	22.08	9.76	049	0.85	
30	22.20	9.88	049	0.85	
35	22.21	9.90	049	0.90	
40	22.23	9.94	048	0.95	

CK-20		0700 EST		Weather 02	
24 Sept 52		Depth 42'		Wind 0	
				Air 17.8°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT		
			DIR (°T)	SPEED (KTS)	
0	21.63	9.63	036	0.47	
5	21.83	9.78	036	0.39	
10	21.87	9.84	036	0.47	
15	22.04	9.95	036	0.47	
20	22.13	9.98	036	0.44	
25	22.14	10.08	036	0.44	
30	22.25	10.43	036	0.39	
35	22.26	10.48	036	0.39	
40	22.27	10.50	026	0.39	

CK-20		0600 EST		Weather 02	
24 Sept 52		Depth 42'		Wind 0	
				Air 16.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT		
			DIR (°T)	SPEED (KTS)	
0	21.66	9.40	039	0.66	
5	21.71	9.43	039	0.71	
10	21.83	9.59	040	0.66	
15	21.92	9.71	039	0.62	
20	22.01	9.77	038	0.77	
25	22.13	9.87	037	0.77	
30	22.12	9.87	038	0.80	
35	22.13	9.87	040	0.59	
40	22.29	10.33	039	0.56	

CK-20		0800 EST		Weather 01	
24 Sept 52		Depth 41'		Wind 0	
				Air 23.9°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT		
			DIR (°T)	SPEED (KTS)	
0	21.67	9.60	357	0.17	
5	21.92	9.78	026	0.20	
10	21.90	9.86	036	0.22	
15	21.98	9.92	036	0.24	
20	22.04	10.01	042	0.21	
25	22.09	10.12	0	0.00	
30	22.15	10.40	0	0.00	
35	22.17	10.48	090	0.11	
40	22.17	10.50	092	0.11	



CK-20		0900 EST	Weather 05	
24 Sept 52		Depth 41'	Wind E-0	
			Air 23.3°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.40	9.11	232	0.30
5	21.64	9.44	230	0.29
10	21.83	9.61	223	0.19
15	21.87	9.77	216	0.15
20	21.98	10.13	253	0.19
25	22.13	10.39	254	0.15
30	22.14	10.42	254	0.15
35	22.16	10.42	249	0.14
40	22.16	10.44	254	0.17

CK-20		1110 EST	Weather 05	
24 Sept 52		Depth 43'	Wind 0	
			Air 23.3°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.17	8.97	247	0.62
5	21.78	9.41	237	0.62
10	21.75	9.56	237	0.62
15	21.83	9.76	232	0.62
20	21.89	9.85	226	0.56
25	21.93	9.86	239	0.56
30	21.95	9.88	242	0.56
35	22.00	9.95	245	0.56
40	22.16	10.10	245	0.52

CK-20		1000 EST	Weather 05	
24 Sept 52		Depth 42'	Wind E-0	
			Air 22.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.83	8.96	251	0.69
5	21.81	9.31	251	0.69
10	21.83	9.66	240	0.53
15	21.77	9.67	220	0.53
20	21.87	9.90	230	0.52
25	21.98	10.02	235	0.55
30	22.16	10.25	237	0.52
35	22.19	10.30	237	0.50
40	22.20	10.37	237	0.43

CK-20		1200 EST	Weather 05	
24 Sept 52		Depth 43'	Wind 0	
			Air 23.9°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.23	8.91	250	0.56
5	21.86	9.34	239	0.62
10	21.86	9.50	229	0.69
15	21.88	9.63	224	0.59
20	21.89	9.68	223	0.66
25	21.95	9.82	229	0.56
30	21.97	9.86	235	0.56
35	21.99	9.88	243	0.56
40	22.08	10.01	244	0.44

CK-26		0800 EST	Weather 01	
25 Sept 52		Depth 31'	Wind NNE-2	
			Air 16.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.82	6.87	044	0.48
5	21.82	6.91	044	0.60
10	21.87	7.29	044	0.76
15	21.71	7.35	044	0.84
20	21.67	7.35	019	0.73
25	21.67	7.36	019	0.67
28	21.68	7.36	--	--
29	--	--	019	0.57

CK-26		1002 EST	Weather 02	
25 Sept 52		Depth 31'	Wind NNE-2	
			Air 20.0°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.83	6.97	217	0.24
5	21.83	7.07	219	0.24
10	21.83	7.14	216	0.23
15	21.77	7.23	212	0.21
20	21.76	7.38	213	0.14
25	21.73	7.44	0	0.00
27½	21.67	7.46	0	0.00

CK-26		0900 EST	Weather 01	
25 Sept 52		Depth 31'	Wind NNE-2	
			Air 18.3°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.82	6.90	0	0.00
5	21.84	6.98	0	0.00
10	21.87	7.06	0	0.00
15	21.92	7.24	0	0.00
20	21.74	7.37	019	0.17
25	21.71	7.38	012	0.24
28	21.71	7.38	007	0.24

CK-26		1102 EST	Weather 02	
25 Sept 52		Depth 30'	Wind NNE-1	
			Air 21.1°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.02	6.55	209	0.87
5	21.80	6.68	209	0.70
10	21.77	7.00	209	0.57
15	21.76	7.43	204	0.40
20	21.73	7.47	204	0.35
25	21.71	7.50	204	0.28
27½	21.70	7.52	204	0.28

CK-26		1200 EST	Weather 01	
25 Sept 52		Depth 33'	Wind NE-1	
			Air 22.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.18	6.16	198	1.22
5	21.87	6.38	198	1.06
10	21.82	6.64	198	0.89
15	21.82	7.18	198	0.60
20	21.82	7.21	198	0.60
25	21.82	7.33	198	0.48
26	21.81	7.37	--	--
30	--	--	198	0.57
32	--	--	198	0.78

CK-26		1400 EST	Weather 01	
25 Sept 52		Depth 30'	Wind NE-1	
			Air 23.9°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.31	5.78	212	1.13
5	22.06	6.09	209	0.70
10	22.02	5.30	209	0.60
15	21.90	6.48	209	0.53
20	21.87	6.62	198	0.57
25	21.87	6.67	198	0.45
27	21.87	6.67	186	0.40

CK-26		1300 EST	Weather 01	
25 Sept 52		Depth 30'	Wind NE-1	
			Air 24.4°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.60	5.99	197	0.97
5	22.05	6.13	196	0.93
10	21.90	6.40	197	0.77
15	21.88	6.57	197	0.65
20	21.85	6.81	197	0.65
25	21.84	6.88	197	0.53
27	21.83	6.94	--	--
29	--	--	197	0.45

CK-26		1500 EST	Weather 01	
25 Sept 52		Depth 30'	Wind NE-1	
			Air 25.6°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.36	5.51	202	0.81
5	22.11	5.62	192	0.60
10	22.04	5.80	192	0.45
15	21.93	6.16	202	0.34
20	21.90	6.28	202	0.29
25	21.87	6.53	0	0.00
27	21.86	6.58	0	0.00

CK-26		1600 EST	Weather 01	
25 Sept 52		Depth 30'	Wind NE-1	
			Air 26.1°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.27	5.31	219	0.11
5	22.04	5.51	209	0.12
10	21.94	6.02	0	0.00
15	21.92	6.32	058	0.20
20	22.03	6.34	057	0.27
25	21.87	6.39	059	0.28
27	21.87	6.47	049	0.33

CK-26		1800 EST	Weather 00	
25 Sept 52		Depth 31'	Wind SSE-1	
			Air 22.8°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.13	5.90	031	0.67
5	22.19	6.00	031	0.78
10	22.23	6.31	041	0.91
15	22.01	6.59	051	0.91
20	22.00	6.60	051	0.87
25	21.99	6.64	041	0.78
28	22.01	6.68	041	0.76

CK-26		1700 EST	Weather 00	
25 Sept 52		Depth 30'	Wind 0	
			Air 27.8°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.15	5.48	012	0.28
5	22.03	5.69	022	0.45
10	22.06	5.87	042	0.53
15	22.15	6.14	052	0.50
20	22.13	6.47	072	0.57
25	22.02	6.66	072	0.58
27	21.98	6.80	072	0.58

CK-26		1902 EST	Weather 02	
25 Sept 52		Depth 31'	Wind SSE-1	
			Air 20.6°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.05	6.42	061	1.11
5	22.11	6.53	056	1.04
10	22.06	6.71	051	0.97
15	22.02	6.91	046	0.97
20	22.01	7.14	041	0.97
25	22.02	7.32	036	0.94
28	22.04	7.36	011	0.81

CK-26		2000 EST	Weather 02	
25 Sept 52		Depth 31'	Wind SSE-1	
			Air 19.4°C	
DEPTH ( FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.04	6.94	059	1.02
5	22.04	7.20	059	0.83
10	22.03	7.28	059	0.65
15	22.02	7.45	055	0.65
20	22.02	7.58	055	0.59
25	22.02	7.58	054	0.65
28	22.02	7.55	059	0.51

CK-26		2200 EST	Weather 00	
25 Sept 52		Depth 31'	Wind 0	
			Air 18.6°C	
DEPTH ( FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.86	7.43	0	0.00
5	21.85	7.48	028	0.17
10	21.86	7.66	028	0.27
15	21.85	7.68	043	0.32
20	21.82	7.71	038	0.45
25	21.98	8.03	038	0.45
28	22.00	8.15	038	0.26

CK-26		2100 EST	Weather 00	
25 Sept 52		Depth 31'	Wind 0	
			Air 18.9°C	
DEPTH ( FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.02	7.72	052	0.88
5	21.99	7.75	052	0.65
10	21.97	7.77	052	0.70
15	21.97	7.77	052	0.65
20	21.97	7.80	052	0.65
25	21.98	7.80	052	0.65
28	21.98	7.84	052	0.51

CK-26		2300 EST	Weather 04	
25 Sept 52		Depth 28'	Wind 0	
			Air 18.3°C	
DEPTH ( FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.84	7.51	215	0.14
5	21.95	7.75	215	0.11
10	21.95	7.90	0	0.00
15	21.93	7.93	0	0.00
20	21.97	8.11	0	0.00
25	22.02	8.27	055	0.06
27	22.02	8.28	055	0.12

CK-26		0000 EST	Weather 00	
26 Sept 52		Depth 28'	Wind 0	
			Air 17.8°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.61	6.60	207	0.61
5	21.86	7.19	207	0.58
10	21.98	7.94	207	0.36
15	22.02	8.03	207	0.25
20	22.02	8.19	197	0.16
25	22.00	8.23	192	0.11
27	22.00	8.25	0	0.00

CK-26		0200 EST	Weather 04	
26 Sept 52		Depth 28'	Wind 0	
			Air 15.6°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.68	6.27	212	0.97
5	21.84	6.55	212	0.93
10	21.87	6.82	212	0.91
15	22.02	7.61	212	0.64
20	22.02	7.63	212	0.57
25	22.03	7.71	222	0.53
27	22.03	7.71	222	0.40

CK-26		0100 EST	Weather 00	
26 Sept 52		Depth 28'	Wind 0	
			Air 16.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.51	6.57	207	0.94
5	21.88	7.18	207	0.89
10	21.92	7.40	207	0.76
15	22.02	7.88	207	0.58
20	22.02	7.95	207	0.45
25	22.02	8.08	207	0.29
27	22.02	8.11	207	0.22

CK-26		0300 EST	Weather 04	
26 Sept 52		Depth 28'	Wind 0	
			Air 15.0°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.71	6.40	220	1.06
5	21.83	6.56	220	0.88
10	21.93	6.81	220	0.77
15	21.95	6.99	210	0.59
20	22.00	7.27	210	0.48
25	22.02	7.42	210	0.35
27	22.02	7.47	210	0.35

CK-26		0400 EST	Weather 04	
26 Sept 52		Depth 30'	Wind 0	
			Air 14.4°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.70	6.13	213	0.73
5	21.77	6.24	213	0.70
10	21.86	6.54	213	0.57
15	21.92	6.79	213	0.45
20	21.98	7.14	203	0.31
25	22.00	7.43	0	0.00
30	22.00	7.40	0	0.00

CK-26		0604 EST	Weather: 04	
26 Sept 52		Depth 31'	Wind 0	
			Air 14.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.66	6.11	0	0.00
5	21.82	6.41	040	0.15
10	21.92	6.79	045	0.31
15	21.88	6.88	055	0.32
20	21.86	7.02	055	0.32
25	21.70	7.21	054	0.30
28	21.91	7.57	054	0.28

CK-26		0500 EST	Weather 04	
26 Sept 52		Depth 30'	Wind 0	
			Air 14.4°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.66	6.05	193	0.37
5	21.82	6.22	083	0.26
10	21.86	6.42	072	0.17
15	21.95	6.73	062	0.15
20	21.96	6.99	042	0.15
25	21.98	7.24	042	0.21
30	21.99	7.47	042	0.21

CK-26		0700 EST	Weather 03	
26 Sept 52		Depth 30'	Wind ENE-1	
			Air 14.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.64	6.24	032	0.22
5	21.81	6.46	031	0.31
10	21.87	6.83	043	0.46
15	21.82	6.94	049	0.57
20	21.82	7.26	044	0.43
25	21.86	7.53	040	0.36
29	21.90	7.63	035	0.38

CK-30		0800 EST	Weather 00	
26 Sept 52		Depth 53'	Wind 0	
			Air 16.9°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.59	4.26	302	0.60
5	21.60	4.42	297	0.58
10	21.60	4.53	307	0.60
15	21.68	4.59	317	0.65
20	21.69	4.63	317	0.70
25	21.71	4.64	317	0.65
30	21.72	4.70	317	0.70
35	21.75	4.73	317	0.70
40	21.75	4.81	317	0.77
45	21.77	4.85	330	0.88
50	21.77	4.85	330	0.93

CK-30		1000 EST	Weather 00	
26 Sept 52		Depth 55'	Wind 0	
			Air 20.8°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.92	4.75	290	0.23
5	21.78	4.83	300	0.30
10	21.84	5.02	310	0.31
15	21.83	5.23	315	0.33
20	21.75	5.32	320	0.36
25	21.69	5.35	315	0.53
30	21.69	5.35	315	0.50
35	21.69	5.35	315	0.52
40	21.70	5.35	320	0.50
45	21.70	5.35	325	0.50
50	21.70	5.36	340	0.50
52	--	--	330	0.45

CK-30		0911 EST	Weather 00	
26 Sept 52		Depth 53'	Wind 0	
			Air 17.5°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.68	4.40	300	0.14
5	21.66	4.42	300	0.22
10	21.69	4.65	320	0.59
15	21.71	4.88	320	0.65
20	21.71	4.90	320	0.65
25	21.71	5.10	320	0.65
30	21.71	5.10	320	0.65
35	21.71	5.10	320	0.70
40	21.71	5.11	320	0.65
45	21.71	5.10	320	0.83
50	21.71	5.09	320	0.59

CK-30		1100 EST	Weather 00	
26 Sept 52		Depth 53'	Wind S-1	
			Air 23.3°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.99	4.86	--	--
5	22.01	5.04	063	0.16
10	21.75	5.34	063	0.09
15	21.73	5.40	0	0.00
20	21.72	5.47	0	0.00
25	21.71	5.47	0	0.00
30	21.71	5.49	0	0.00
35	21.72	5.49	0	0.00
40	21.72	5.51	0	0.00
45	21.72	5.52	0	0.00
48	21.73	5.52	0	0.00



CK-30		1200 EST	Weather 01	
26 Sept 52		Depth 52'	Wind 0	
			Air 27.8°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.93	4.39	102	0.73
5	22.74	4.66	102	0.66
10	21.98	4.90	132	0.52
15	21.92	5.16	141	0.36
20	21.87	5.27	142	0.38
25	21.69	5.44	142	0.41
30	21.71	5.45	146	0.52
35	21.71	5.47	146	0.52
40	21.71	5.47	151	0.48
45	21.71	5.48	151	0.46
50	21.72	5.55	156	0.24
52	--	--	156	0.21

CK-30		1400 EST	Weather 00	
26 Sept 52		Depth 46'	Wind 0	
			Air 30.0°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.96	3.94	106	0.97
5	22.40	4.04	101	0.88
10	22.53	4.12	101	0.70
15	22.39	4.26	111	0.70
20	22.22	4.28	110	0.77
25	22.06	4.40	115	0.77
30	22.02	4.46	123	0.59
35	22.05	4.52	133	0.70
40	22.04	4.52	134	0.51
42	22.02	4.53	--	--
45	--	--	139	0.51

CK-30		1300 EST	Weather 01	
26 Sept 52		Depth 50'	Wind 0	
			Air 27.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.83	4.18	104	0.83
5	22.33	4.32	105	0.97
10	22.02	4.48	107	0.93
15	21.99	4.60	125	0.83
20	21.95	4.60	131	0.83
25	21.96	4.64	139	0.77
30	21.89	4.70	142	0.65
35	21.84	4.72	144	0.70
40	21.84	4.72	149	0.77
45	21.87	4.74	148	0.59
47	21.84	4.92	148	0.51

CK-30		1500 EST	Weather 00	
26 Sept 52		Depth 47'	Wind 0	
			Air 28.9°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.15	3.84	108	0.97
5	22.02	3.91	108	0.93
10	21.98	3.97	115	0.88
15	22.00	4.01	112	0.83
20	22.00	4.02	113	0.51
25	22.01	4.02	118	0.70
30	22.02	4.02	128	0.93
35	22.02	4.02	129	0.59
40	22.05	4.03	137	0.65
44	22.14	4.03	--	--
45	--	--	136	0.59

CK-30		1603 EST	Weather 00	
26 Sept 52		Depth 46'	Wind 0	
			Air 27.8°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.13	3.40	108	0.93
5	22.09	3.61	112	0.77
10	22.11	3.63	120	0.65
15	22.11	3.63	117	0.70
20	22.11	3.63	121	0.77
25	22.12	3.62	123	0.77
30	22.13	3.62	133	0.70
35	22.14	3.61	129	0.65
40	22.15	3.65	120	0.65
43	22.14	3.67	--	--
45	--	--	122	0.59

CK-30		1800 EST	Weather 00	
26 Sept 52		Depth 45'	Wind 0	
			Air 23.3°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.06	3.25	0	0.00
5	22.06	3.26	0	0.00
10	22.11	3.38	337	0.14
15	22.12	3.40	337	0.23
20	22.15	3.50	337	0.38
25	22.20	3.61	337	0.48
30	22.31	3.77	337	0.33
35	22.31	3.81	337	0.33
40	22.36	3.88	337	0.35
43	22.33	3.89	337	0.33

CK-30		1700 EST	Weather 00	
26 Sept 52		Depth 46'	Wind 0	
			Air 27.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.05	3.27	101	0.24
5	22.06	3.27	091	0.15
10	22.08	3.33	111	0.15
15	22.09	3.33	121	0.09
20	22.09	3.33	126	0.14
25	22.11	3.34	141	0.16
30	22.11	3.34	145	0.17
35	22.12	3.40	151	0.20
40	22.19	3.68	146	0.17
43	22.20	3.70	--	--
45	--	--	126	0.14

CK-30		1900 EST	Weather 00	
26 Sept 52		Depth 47'	Wind 0	
			Air 22.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.03	3.11	319	0.70
5	22.29	3.70	329	0.65
10	22.24	3.76	327	0.65
15	22.20	3.77	337	0.59
20	22.15	3.78	337	0.70
25	22.13	3.78	337	0.77
30	22.13	3.84	339	0.65
35	22.13	3.88	329	0.77
40	22.14	3.97	329	0.70
45	22.13	4.02	319	0.70

CK-30		2000 EST	Weather 00	
26 Sept 52		Depth 50'	Wind 0	
			Air 18.9°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.06	3.94	316	0.65
5	22.09	3.93	316	0.65
10	22.10	4.10	316	0.77
15	22.12	4.02	316	0.88
20	22.13	4.18	316	0.88
25	22.18	4.35	316	1.02
30	22.13	4.18	324	0.97
35	22.17	4.37	316	1.14
40	22.18	4.38	336	1.14
45	22.18	4.36	336	0.88
47	22.19	4.37	--	--
50	--	--	336	0.59

CK-30		2200 EST	Weather 00	
26 Sept 52		Depth 52'	Wind 0	
			Air 17.8°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.05	5.17	305	0.53
5	22.05	5.21	315	0.48
10	22.04	5.32	325	0.73
15	22.04	5.34	325	0.76
20	22.04	5.36	325	0.76
25	22.05	5.42	325	0.91
30	22.05	5.42	325	0.94
35	22.06	5.46	325	0.89
40	22.07	5.50	325	0.89
45	22.08	5.50	325	0.87
50	--	--	315	0.84

CK-30		2100 EST	Weather 00	
26 Sept 52		Depth 47'	Wind 0	
			Air 18.3°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.05	4.89	315	0.84
5	22.07	4.87	315	0.78
10	22.08	4.87	315	0.84
15	22.09	4.89	305	0.91
20	22.08	4.87	315	1.01
25	22.11	4.86	315	1.06
30	22.12	4.86	315	1.01
35	22.10	4.85	315	1.01
40	22.10	4.85	315	1.09
45	22.10	4.85	305	0.78

CK-30		2300 EST	Weather 00	
26 Sept 52		Depth 52'	Wind 0	
			Air 17.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	22.02	5.60	307	0.40
5	22.02	5.63	312	0.40
10	21.99	5.80	312	0.53
15	21.98	5.92	317	0.57
20	21.98	5.98	317	0.60
25	21.98	6.01	317	0.60
30	21.98	6.02	317	0.64
35	22.00	6.02	317	0.64
40	22.00	6.03	317	0.67
45	22.02	6.04	317	0.64
47	22.02	6.04	--	--
50	--	--	317	0.53

CK-30		0000 EST	Weather 00	
27 Sept 52		Depth 50'	Wind 0	
			Air 17.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.95	5.82	0	0.00
5	21.95	5.83	0	0.00
10	21.94	5.84	0	0.00
15	21.93	5.91	307	0.11
20	21.94	6.01	002	0.16
25	21.95	6.05	002	0.17
30	21.95	6.08	002	0.16
35	21.95	6.15	002	0.20
40	21.95	6.18	002	0.21
45	21.97	6.19	352	0.23
47	21.98	6.20	327	0.25

CK-30		0204 EST	Weather 00	
27 Sept 52		Depth 51'	Wind NNE-2	
			Air 17.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.82	4.74	117	0.89
5	21.93	5.14	117	0.67
10	21.89	5.33	127	0.60
15	21.89	5.34	137	0.60
20	21.86	5.35	137	0.57
25	21.90	5.80	142	0.57
30	21.95	5.96	147	0.53
35	21.99	6.10	147	0.53
40	21.99	6.10	142	0.60
45	21.99	6.12	137	0.57
48	--	--	137	0.48
50	21.99	6.12	--	--

CK-30		0103 EST	Weather 00	
27 Sept 52		Depth 51'	Wind NNE-2	
			Air 17.2°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.75	5.05	122	0.45
5	21.93	5.54	122	0.28
10	21.92	5.63	122	0.21
15	21.96	6.10	127	0.23
20	21.95	6.12	133	0.21
25	21.95	6.15	133	0.15
30	21.95	6.22	133	0.15
35	21.95	6.23	135	0.12
40	21.95	6.25	141	0.12
45	21.96	6.27	141	0.14
48	21.96	6.27	--	--
50	--	--	151	0.14

CK-30		0304 EST	Weather 00	
27 Sept 52		Depth 51'	Wind NNE-2	
			Air 16.7°C	
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.71	4.91	107	0.93
5	21.77	4.92	107	1.06
10	21.83	5.09	111	1.14
15	21.87	5.13	111	1.18
20	21.87	5.12	116	1.10
25	21.87	5.12	131	1.02
30	21.87	5.08	132	0.88
35	21.82	5.09	132	1.06
40	21.83	5.15	132	1.22
45	21.89	5.32	131	0.93
48	21.94	5.49	--	--
50	--	--	131	0.83

CK-30	0400 EST	Weather 00 Wind NNE-2 Air 15.6°C		
27 Sept 52	Depth 50'			
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.79	4.51	099	1.06
5	21.83	4.54	099	0.97
10	21.85	4.66	109	0.88
15	21.85	4.66	119	0.88
20	21.84	4.72	129	0.65
25	21.82	4.73	129	0.65
30	21.83	4.73	134	0.59
35	21.83	4.73	134	0.65
40	21.80	4.75	134	0.51
45	21.78	4.76	134	0.51
46	21.79	4.76	--	--
49	--	--	134	0.51

CK-30		0600 EST		Weather 00	
27 Sept 52		Depth 52'		Wind N-2	
				Air 15.0°C	
DEPTH ( FT.)	TEMP ( °C)	SALINITY ( ‰)	CURRENT		
			DIR ( °T)	SPEED ( KTS)	
0	21.75	3.79	089	0.83	
5	21.77	3.82	089	0.77	
10	21.75	4.00	109	0.59	
15	21.75	4.02	109	0.51	
20	21.75	4.02	109	0.59	
25	21.75	4.02	109	0.59	
30	21.74	4.02	109	0.59	
35	21.75	4.03	109	0.51	
40	21.74	4.05	109	0.51	
45	21.71	4.09	109	0.51	
50	--	--	109	0.59	

CK-30	0504 EST	Weather 00		
		Wind NNE-3		
27 Sept 52	Depth 48'	Air 15.0°C		
DEPTH (FT.)	TEMP (°C)	SALINITY (‰)	CURRENT	
			DIR (°T)	SPEED (KTS)
0	21.78	4.12	121	0.93
5	21.82	4.23	121	0.88
10	21.80	4.41	124	0.59
15	21.79	4.41	124	0.41
20	21.78	4.41	125	0.51
25	21.78	4.41	131	0.51
30	21.77	4.41	136	0.65
35	21.77	4.41	135	0.65
40	21.79	4.41	135	0.77
45	21.77	4.41	136	0.77
48	--	--	136	0.70

[illegible]

Section B  
Chemical Data

Station	Depth (ft.)	Date	Time EST	O <sub>2</sub> (ml/L)	pH	Chlorophyll ( $\mu$ g/L)	PO <sub>4</sub> ( $\mu$ g at/L)	Turbidity		
								400m $\mu$	600m $\mu$	800m $\mu$
CK-6	0	26 Sept	0641	5.01	7.79	0.74	0.12	0.109	0.052	0.041
	10		0702	4.57	8.05	1.13	0.13	0.109	0.054	0.042
	25		0717	3.29	8.19	7.16	0.16	0.139	0.081	0.066
	40		0735	2.24	7.81	0.97	0.20	0.168	0.105	0.081
CK-12	0	25 Sept	0645	1.54	7.91	3.40	0.13	0.162	0.091	0.070
	10		0700	1.28	7.94	5.62	0.13	0.144	0.086	0.067
	20		0718	3.68	8.06	1.15	0.18	0.125	0.077	0.051
	40		0735	3.44	7.83	1.63	0.14	0.175	0.112	0.091
	60		0754	2.62	7.60	0.92	0.18	0.144	0.087	0.072
CK-20	0	23 Sept	1255	4.49	7.65	0.61	0.26	0.375	0.212	0.163
	10		1316	3.89	7.66	0.82	0.28	0.319	0.174	0.132
	20		1330	4.01	7.70	0.71	0.30	0.351	0.207	0.162
	35		1343	4.17	7.78	0.03	0.31	0.369	0.216	0.168

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